

D1
Cont

axis. The composite cylindrical permanent magnet block is provided with multipolar magnetization to have a plurality of magnetic poles around the circumference of the cylindrical block.

IN THE CLAIMS:

Please amend claim 2 as follows:

2. (Twice Amended) A permanent magnet motor comprising:

a stator having stator teeth; and

D2

a rotor coaxially inserted within said stator, wherein said rotor comprises a cylindrical permanent magnet including a composite block of plural cylindrical unit permanent magnets, each of said plural cylindrical unit permanent magnets having magnetically anisotropic orientation in a single diametrical direction perpendicular to a cylinder axis of said cylindrical permanent magnet, with each of said plural cylindrical permanent unit magnets being magnetized to have evenly disposed magnetic poles around a circumference of said cylindrical permanent magnet, and with said plural cylindrical unit permanent magnets being rotationally fixed relative to one another,

wherein said evenly disposed magnetic poles are k in number, with k being an even integer not smaller than 4 and not greater than 100, and

wherein said stator teeth are n in number, with n being equal to $3n_0$, when n_0 is a positive integer not exceeding 33, with the proviso that k is not equal to n .

Kindly add the following new claims 3-7:

3. The permanent magnet motor according to claim 2, wherein a direction of diametrical orientation of each of said cylindrical unit permanent magnets forms a rotational displacement angle, within a plane that is perpendicular to said cylinder axis, with a direction of diametrical orientation of an immediately adjacent one of said cylindrical unit permanent magnets.

173
4. The permanent magnet motor according to claim 3, wherein said rotational displacement angle is equal to 180° divided by the number of cylindrical unit permanent magnets.

5. The permanent magnet motor according to claim 4, wherein each of said plural cylindrical unit permanent magnets has a dipolar orientation.

6. The permanent magnet motor according to claim 3, wherein each of said plural cylindrical unit permanent magnets has a dipolar orientation.

7. The permanent magnet motor according to claim 2, wherein each of said plural cylindrical unit permanent magnets has a dipolar orientation.